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EDUCATION

Ph.D., Economics-Marine Resources, University of Rhode Island, 1991.
M.M.A., Marine Affairs, University of Rhode Island, 1987.
B.S., Naval Architecture and Ocean Engineering, Shanghai Jiao Tong University, 1982.

PROFESSIONAL EXPERIENCE

Senior Scientist, Woods Hole Oceanographic Institution, 2008-present.
Associate Scientist (with tenure), Woods Hole Oceanographic Institution, 2001-2008.
Associate Scientist (without tenure), Woods Hole Oceanographic Institution, 1997-2001.
Assistant Scientist, Woods Hole Oceanographic Institution, 1993-1997.
Postdoctoral Research Fellow, Woods Hole Oceanographic Institution, 1991-1993.
Research Assistant, University of Rhode Island, 1987-1991.
Assistant Engineer, China State Shipbuilding Corporation, 1982-1986.

HONORS

Outstanding Social Science Ph.D. Dissertation Award, National Sea Grant Association, 1992.
The Honor Society of Phi Kappa Phi, 1989.

PROFESSIONAL ASSOCIATIONS

American Economic Association
Association of Environmental and Resource Economists
Agricultural and Applied Economics Association

RESEARCH INTERESTS

Resource and environmental economics; ocean and coastal management; fisheries and aquaculture; offshore wind energy; offshore oil and gas exploration and production; marine transportation; marine safety; integrated economic and ecological models; integrated economic and geological models.

REFEREED JOURNAL ARTICLES

Kourantidou, M., D. Jin and A. Solow. 2021. Bioeconomic analysis accounting for environmental effects in data-poor fisheries: The Northern Labrador Arctic Charr. *Canadian Journal of Fisheries and Aquatic Sciences*, In press.

Jin, D., P. Hoagland and K.O. Buesseler. 2020. The value of scientific research on the ocean's biological carbon pump. *Science of the Total Environment*. 749:141357. <https://doi.org/10.1016/j.scitotenv.2020.141357>

Kirshen, P., M. Borrelli; J. Byrnes, R. Chen, L. Lockwood, C. Watson, K. Starbuck, J. Wiggin, A. Novelly, K. Uiterwyk, K. Thurson, B. McMann, C. Foster, H. Sprague, H. J. Roberts, K. Bosma, D. Jin, R. Herst. 2020. Integrated assessment of storm surge barrier systems under present and future climates and comparison to alternatives; a case study of Boston USA. *Climatic Change*. <https://doi.org/10.1007/s10584-020-02781-8>

Werner, S., G. DePiper, D. Jin and A. Kitts. 2020. Estimation of commercial fishing trip costs using sea sampling data. *Marine Resource Economics*. In press. <https://www.journals.uchicago.edu/doi/10.1086/710668>

Hoagland P, B. Kirkpatrick, D. Jin, G. Kirkpatrick, L.E. Fleming, S.G. Ullmann, A. Beet, G. Hitchcock, K.K. Harrison, Z.C. Li, B. Garrison, R.E. Diaz and V. Lovko. 2020. Lessening the hazards of Florida red tides: a common sense approach. *Frontiers in Marine Science* 7:538. doi: 10.3389/fmars.2020.00538

Diaz, R.E. M.A. Friedman, D. Jin, A. Beet, B. Kirkpatrick, A.Reich, G.Kirkpatrick, S.G. Ullmann, L.E. Fleming and P. Hoagland. 2019. Neurological illnesses associated with Florida red tide (*Karenia brevis*) blooms. *Harmful Algae* 82:73-81.

Jin, D., M-Y. Lee and E. Thunberg. 2019. An empirical analysis of individual fishing quota market trading. *Marine Resource Economics* 34(1):39-57.

Jin, D., C. Watson, H. Kite-Powell, P. Kirshen. 2018. Evaluating Boston Harbor Cleanup: an ecosystem valuation approach. *Frontiers in Marine Science* 5:478. doi: 10.3389/fmars.2018.00478

Hutcheson, W., P. Hoagland and D. Jin. 2018. Valuing environmental education as a cultural ecosystem service at Hudson River Park. *Ecosystem Services* 31:387–394.

Dalton, T. and D. Jin. 2018. Attitudinal factors and personal characteristics influence support for shellfish aquaculture in Rhode Island (US) coastal waters. *Environmental Management* 61:848-859.

Thlusty, M.F., B. Wikgren, K. Lagueux, H. Kite-Powell, D. Jin, P. Hoagland, R.D. Kenney and S.D. Kraus. 2018. Co-occurrence mapping of disparate data sets to assess potential aquaculture sites in the Gulf of Maine. *Reviews in Fisheries Science & Aquaculture* 26(1):70-85.

- Fallon, A.R., P. Hoagland, D. Jin, W. Phalen, G.G. Fitzsimons and C. J. Heine. 2017. Adapting without retreating: responses to shoreline change on an inlet-associated coastal beach. *Coastal Management* 45(5):360-383.
- Dalton, T., D. Jin, R. Thompson and A. Katzanek. 2017. Using normative evaluations to plan for and manage shellfish aquaculture development in Rhode Island coastal waters. *Marine Policy* 83:194-203.
- Zheng, Y., W.K. Talley, D. Jin and M. Ng. 2016. Crew injuries in container vessel accidents. *Maritime Policy and Management* 43(5):541-551.
- Jin, D, G. DePiper and P. Hoagland. 2016. Applying portfolio management to implement ecosystem-based fishery management. *North American Journal of Fisheries Management* 36(3):652-669.
- Jin, D., P. Hoagland, D.K. Au and J. Qiu. 2015. Shoreline change, seawalls, and coastal property values. *Ocean and Coastal Management* 114:185-193.
- Hoagland, P., T.M. Dalton, D. Jin and J.B. Dwyer. 2015. An approach for analyzing the spatial welfare and distributional effects of ocean wind power siting: the Rhode Island/Massachusetts Area of Mutual Interest. *Marine Policy* 58:51–59.
- Yip, T.L., D. Jin and W.K. Talley. 2015. Determinants of injuries in passenger vessel accidents. *Accident Analysis & Prevention* 82:112–117.
- Byron, C.J., D. Jin and T.M. Dalton. 2015. An integrated ecological-economic modeling framework for the sustainable management of oyster farming. *Aquaculture* 447:15–22.
- Huang, W., J. Corbett and D. Jin. 2015. Regional economic and environmental analysis as a decision support for marine spatial planning in Xiamen. *Marine Policy* 51:555-562.
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- Jin, D. 2014. The determinants of fishing vessel accident severity. *Accident Analysis & Prevention* 66:1-7.
- Rao, H., C. Lin, H. Kong, D. Jin and B. Peng. 2014. Ecological damage compensation for coastal sea area uses. *Ecological Indicators* 38:149–158.
- Jin, D., A.D. Ashton and P. Hoagland. 2013. Optimal responses to shoreline changes: an integrated economic and geological model with application to curved coasts. *Natural Resource Modeling* 26(4):572-604.
- Hoagland, P., H.L. Kite-Powell, D. Jin and A.R. Solow. 2013. Supply-side approaches to the economic valuation of coastal and marine habitat in the Red Sea. *Journal of King Saud University - Science* 25(3):217–228.

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- Jin, D., P. Hoagland and B. Wikgren. 2013. An empirical analysis of the economic value of ocean space associated with commercial fishing. *Marine Policy* 42:74-84.
- Talley, W.K., T.L. Yip and D. Jin. 2012. Determinants of vessel-accident bunker spills. *Transportation Research Part D: Transport and Environment* 17(8):605-609.
- Jin, D., H. Kite-Powell, P. Hoagland and A. Solow. 2012. A bioeconomic analysis of traditional fisheries in the Red Sea. *Marine Resource Economics* 27(2):137-148.
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- Jin, D. 2012. Aquaculture and capture fisheries: a conceptual approach toward an integrated economic-ecological analysis. *Aquaculture Economics and Management* 16(2):167-181.
- Hoagland, P., D. Jin and H.L. Kite-Powell. 2012. The Costs of beach replenishment along the US Atlantic coast. *Journal of Coastal Research* 28(1A):199-204.
- Yip, T.L., W.K. Talley and D. Jin. 2011. The effectiveness of double hulls in reducing vessel-accident oil spillage. *Marine Pollution Bulletin* 62(11):2427-2432.
- Jin, D. and J. Lin. 2011. Managing tsunamis through early warning systems: a multidisciplinary approach. *Ocean and Coastal Management* 54(2):189-199.
- Portman, M.E., D. Jin and E. Thunberg. 2011. The Connection between fisheries resources and spatial land use change: the case of two New England fish ports. *Land Use Policy* 28(3):523-533.
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- Dalton, T., R. Thompson and D. Jin. 2010. Mapping human dimensions in marine spatial planning and management: an example from Narragansett Bay, Rhode Island. *Marine Policy* 34(2):309-319.
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- Jin, D. and P. Hoagland. 2008. The value of harmful algal bloom predictions to the nearshore commercial shellfish fishery in the Gulf of Maine. *Harmful Algae* 7(6):772-781.
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- harvesting and processing sectors in New England. *Marine Resource Economics* 21(1):47-62.
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- Jin, D. and G. Herrera. 2005. A stochastic bioeconomic model with research. *Marine Resource Economics* 20(3):249-261.
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- Managi, S., J.J. Opaluch, D. Jin and T.A. Grigalunas. 2005. Environmental regulations and technological change in the offshore oil and gas industry. *Land Economics* 81(2):303-319.
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- Jin, D., H.L. Kite-Powell, E. Thunberg, A. Solow and W.K. Talley. 2002. A model of fishing vessel accident probability. *Journal of Safety Research* 33(4):497-510.
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- Jin, D., H.L. Kite-Powell and W.K. Talley. 2001. The safety of commercial fishing: determinants of vessel total losses and injuries. *Journal of Safety Research* 32(2):209-228.
- Jin, D. and H.L. Kite-Powell. 2000. Historical performance of shipyards in the United States: a dynamic shift-share analysis. *International Journal of Maritime Economics* 2(3):95-126.
- Jin, D. and H.L. Kite-Powell. 2000. Optimal fleet utilization and replacement. *Transportation Research Part E: Logistics and Transportation Review* 36(1):3-20.
- Jin, D. and H.L. Kite-Powell. 1999. On the optimal environmental liability limit for marine oil transport. *Transportation Research Part E: Logistics and Transportation Review* 35(2):77-100.
- Kite-Powell, H.L., D. Jin, J. Jebsen, V. Papakonstantinou and N. Patrikalakis. 1999. Investigation of potential risk factors for groundings of commercial vessels in U.S. ports. *International Journal of Offshore and Polar Engineering* 9(1):16-21.
- Jin, D. and H.L. Kite-Powell. 1998. Cost assessment for abyssal seafloor waste isolation. *Journal of Marine Systems* 14:289-303.
- Kite-Powell, H.L., P. Hoagland and D. Jin. 1998. Policy, law, and public opposition: the prospects for abyssal ocean waste disposal in the United States. *Journal of Marine Systems* 14:377-396.
- Hoagland, P. and D. Jin. 1997. A model of bycatch involving a passive use stock. *Marine Resource Economics* 12(1):11-28.
- Kite-Powell, H.L., D. Jin and S. Farrow. 1997. Expected safety benefits of electronic charts and integrated navigation systems. *Journal of Transport Economics and Policy* 31(2):147-162.
- Jin, D. and H.L. Kite-Powell. 1996. The prospects of deep ocean waste disposal: an economic analysis. *Journal of Marine Environmental Engineering* 3:31-46.
- Jin, D. and H.L. Kite-Powell. 1995. Environmental liability, marine insurance and an optimal risk sharing strategy for marine oil transport. *Marine Resource Economics* 10(1):1-19.
- Kite-Powell, H.L. and D. Jin. 1994. Economics of research vessels and implications for fleet planning. *Marine Technology Society Journal* 28(4):34-38.
- Jin, D., H.L. Kite-Powell and J.M. Broadus. 1994. Dynamic economic analysis of marine pollution prevention technologies: an application to double hulls and electronic charts. *Environmental and Resource Economics* 4(6):555-580.
- Jin, D. 1994. Multimedia waste disposal optimization under uncertainty with an ocean option. *Marine Resource Economics* 9(2):119-139.

Jin, D. and T.A. Grigalunas. 1993. Environmental compliance and optimal oil and gas exploitation. *Natural Resource Modeling* 7(4):331-352.

Jin, D. 1993. Supply and demand of new oil tankers. *Maritime Policy and Management* 20(3):215-227.

Jin, D. and T.A. Grigalunas. 1993. Environmental compliance and energy exploration and production: application to offshore oil and gas. *Land Economics* 69(1):82-97.

BOOK CHAPTERS AND OTHER PUBLICATIONS

Jin, D., S. Moore, D. Holland, L. Anderson, W. Lim, D. Kim, S. Jardine, S. Martino, F. Gianella and K. Davidson. 2020. Chapter 2. Evaluating the economic impacts of harmful algal blooms: Issues, methods, and examples. In *GlobalHAB: Evaluating, Reducing and Mitigating the Cost of Harmful Algal Blooms: a Compendium of Case Studies*. PICES.

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Speich, S., T. Lee, F.E. Muller-Karger, L. Lorenzoni, A. Pascual, D. Jin, E. Delory, G. Reverdin, J. Siddorn, M.R. Lewis, N. Marba, P.L. Buttigieg, S. Chiba, J. Manley, A.T. Kabo-Bah, K. Desai and A. Ackerman. 2019. Editorial: Oceanobs19: An Ocean of Opportunity. *Frontier in Marine Science* 6:570. doi: 10.3389/fmars.2019.00570

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Mace, K. Mengerink, J.R. Morrison, J. Murray, K. Norman, J. O'donnell, J. Overland, R. Parsons, N. Pettigrew, L. Pfeiffer, E. Pidgeon, M. Plummer, J. Polovina, J. Quintrell, T. Rowles, J. Runge, M. Rust, E. Sanford, U. Send, M. Singer, C. Speir, D. Stanitski, C. Thornber, C. Wilson and Y. Xue. 2013. Oceans and marine resources in a changing climate. *Oceanography and Marine Biology: An Annual Review* 51:71-192.

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Sherman, K., I. Belkin, S. Seitzinger, P. Hoagland, D. Jin, M.C. Aquarone and S. Adams. 2009. Indicators of changing states of large marine ecosystems. Pages 13-49 in K. Sherman, M.C. Aquarone and S. Adams ed. *Sustaining the Worlds' Large Marine Ecosystems*. IUCN, Gland, Switzerland.

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Jin, D., P. Hoagland and H.L. Kite-Powell. 2011. Farm-gate Price Models, Seafood Pricing, and Economic Impacts. A report prepared for Dr. C. Allen Atkinson, Information & Simulation Systems, Redondo Beach, CA. March. Marine Policy Center, Woods Hole Oceanographic Institution.

Opaluch, J.J, T.A. Grigalunas, C.M. Anderson, S.C. Trandafir and D. Jin. 2009. *Policies to Affect the Pace of Leasing and Revenues in the Gulf of Mexico*, Final Report, Part 2. Technical Report to U.S. Minerals Management Service. Economic Analysis, Inc. Narragansett, RI.

Hoagland, P., D. Jin and H.L. Kite-Powell. 2008. *Regional economic analysis of the Northwest Atlantic marine eco-region*. The Nature Conservancy. September 9, Boston, MA.

Jin, D. 2008. Development of Commercial Fishing Vessel Cost Models. Project Report to NOAA-NEFSC. May. Marine Policy Center, Woods Hole Oceanographic Institution.

Kite-Powell, H., P. Hoagland and D. Jin. 2007. US Gulf of Maine Herring Fisheries and Market Trends, 1990-2006. Project Report. May. Marine Policy Center, Woods Hole Oceanographic Institution.

Hoagland, P., H. Kite-Powell, D. Jin, M. Schumacher, L. Katz and D. Klinger. 2007. Economic Sustainability of Marine Aquaculture. A Report to the Marine Aquaculture Task Force. February. Marine Policy Center, Woods Hole Oceanographic Institution.

Jin, D. H.L. Kite-Powell and P. Hoagland. 2005. Future growth of the U.S. aquaculture industry and associated environmental quality issues. Proceedings of Socio-Economic Causes and Consequences of Future Environmental Changes Workshop. Nov.16, US EPA, San Francisco, CA.

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Hoagland, P., H.L. Kite-Powell and D. Jin. 2005. Open-Ocean Aquaculture: Economic Measures for Mitigating Risk and Encouraging Development. Project Report to NOAA NMFS SK Grant Program, February 28, Marine Policy Center, Woods Hole Oceanographic Institution.

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Kite-Powell, H.L., D. Jin and I.M. Kaplan. 2001. Commercial Fishing Vessel Safety and Fisheries Management. Report to the Massachusetts Humane Society, March, Marine Policy Center, Woods Hole Oceanographic Institution.

Hoagland, P. and D. Jin. 2000. Characterizing Annual Potential Net Economic Value in Selected U.S. Fisheries: a Literature Review. Washington: SeaWeb.

Jin, D., P. Hoagland, H.L. Kite-Powell and M. Schumacher. 2000. Development of an Input-Output Model for Social Economic Impact Assessment of Fisheries Regulations in New England. MARFIN Project Report to NOAA, March, Marine Policy Center, Woods Hole Oceanographic Institution.

Hoagland, P., D. Jarvinen, D. Jin, H.L. Kite-Powell and M. Schumacher. 2000. Cost-Effective Reduction of PCB Contamination in the Hudson River and Estuary. Report to New York Sea Grant Institute, February, Marine Policy Center, Woods Hole Oceanographic Institution.

Jin, D., P. Hoagland and J.H. Steele. 1999. Linking Economic and Ecological Models for a Large Marine Ecosystem. Draft Report to NOAA, December, Marine Policy Center, Woods Hole Oceanographic Institution.

Jin, D. and P. Hoagland. 1998. Economic Activity Associated with the Northeast Shelf Large Marine Ecosystem: An Application of an Input-Output Approach. Report to NOAA, November, Marine Policy Center, Woods Hole Oceanographic Institution.

Schumacher, M., D. Jin and H.L. Kite-Powell. 1998. An Overview of Cruise Industry Operations in North America. Case Study Report for the Sloan Foundation, Marine Policy Center, Woods Hole Oceanographic Institution.

Jin, D., H.L. Kite-Powell and M. Schumacher. 1998. Total Factor Productivity Change in the Offshore Oil and Gas industry. Case Study Report for the Sloan Foundation, Marine Policy Center, Woods Hole Oceanographic Institution.

Kite-Powell, H.L., D. Jin, N. Patrikalakis, J. Jebesen and V. Papakonstantinou. 1996. Formulating of a Model for Ship Transit Risk: Year 1 Progress Report. MIT Sea Grant College Program Report No.96-19.

Kaoru, Y., D. Jin and G.S. Giese. 1996. Public Risk Perception and Coastal Flood Insurance. WHOI Sea Grant project report, May, Marine Policy Center, Woods Hole Oceanographic Institution.

Hoagland, P., D. Jin, P. Lee, C. Croft, L. Davidson and S. Wallis. 1996. Market-Based Incentives to Reduce Fisheries Bycatch. Report to NOAA's National Marine Fisheries Service, February, Marine Policy Center, Woods Hole Oceanographic Institution.

Jin, D., H.L. Kite-Powell and J.M. Broadus. 1995. An Economic Analysis of Abyssal Seafloor Waste Isolation. NRL/CR/7401-95-0019, January 13, Naval Research Laboratory, MS.

Kite-Powell, H., D. Jin, S. Farrow and P. Sassone. 1994. Quantitative Estimation of Benefits and Costs of a Proposed Coastal Forecast System. Report to NOAA's National Ocean Service, March, Marine Policy Center, Woods Hole Oceanographic Institution.

Jin, D. and H.L. Kite-Powell. 1994. Framework for an investment decision support model for noaa's marine services requirements. Prepared for the Marine Board, National Research Council, Washington, D.C.

Jin, D., Y. Kaoru, J. Broadus, A. Solow and N. Tongring. 1993. An Economic and Policy Analysis of the Optimal Strategies for Waste Management: the Ocean Option. Technical Background Study of a Final Report to the Alfred P. Sloan Foundation, March, Marine Policy Center, Woods Hole Oceanographic Institution.

Jin, D. and T.A. Grigalunas. 1992. Environmental regulations and petroleum supply. Marine Policy Center, Woods Hole Oceanographic Institution.

PRESENTATIONS AND INVITED LECTURES

Presentations at national and international conferences:

Allied Social Science Associations annual meeting
American Agricultural Economic Association annual meeting
American Fisheries Society annual meeting
Coastal Zone annual meeting
Eastern Economic Association annual meeting
EPA Workshop on Socio-Economic Causes and Consequences of Future Environmental Changes
International Association of Maritime Economists annual meeting
Korea-U.S. Marine Policy Forum
MIT Sea Grant Symposium on the *Alexandrium* Red Tide of 2005
NOAA Workshop on the Human Dimensions of Large Marine Ecosystems
North Pacific Marine Science Organization (PICES) annual meeting
UNDP/GEF Yellow Sea Regional Science Conference
University of Massachusetts Marine Environmental Forum
Restore America's Estuaries' 3rd National Conference on Coastal and Estuarine Habitat Restoration
Training Workshop on Economic Valuation of the Coastal and Marine Ecosystems in the Red Sea-Sudan
World Ocean Week in Xiamen

Invited lecture at:

American Petroleum Institute
GEF/UNDP/IMO/PEMSEA
Indiana State University
Massachusetts Office of Coastal Zone Management
MIT Sea Grant
Naval Research Laboratory
North Carolina State University
University of Maine
University of Massachusetts Boston
University of Massachusetts Dartmouth
University of Rhode Island
Woods Hole Oceanographic Institution
Xiamen University

REFEREE FOR

Acta Oceanologica Sinica
Applied Economic Perspectives and Policy
Aquaculture Economics and Management
Australian Economic Papers
Canadian Journal of Fisheries and Aquatic Sciences
Coastal Management
Computers and Industrial Engineering
Continental Shelf Research
Copeia
Ecology and Society
Ecological Economics
Ecological Indicators
Economic Systems Research
Environmental and Resource Economics
Environmental Development
Environmental Management
Estuarine, Coastal and Shelf Science
European Journal of Operational Research
Fisheries Research
Frontiers in Ecology and the Environment
Frontiers in Marine Science
Harmful Algae
International Economic Journal
International Journal of Environmental Research and Public Health
International Journal of Offshore and Polar Engineering
Journal of Coastal Research
Journal of Environmental Economics and Management
Journal of Environmental Management
Journal of Integrated Coastal Zone Management
Journal of the World Aquaculture Society

Management of Biological Invasions
Marine Policy
Marine Pollution Bulletin
Marine Resource Economics
Maritime Policy and Management
Maritime Transport Research
Medical Science Monitor
Natural Resource Modeling
Nature Ecology & Evolution
Nature Sustainability
North American Journal of Fisheries Management
Ocean and Coastal Management
Ocean Engineering
Oil & Gas Science and Technology
Proceedings of the National Academy of Sciences
Regional Science and Urban Economics
Risk Analysis
Safety Science
Social Sciences
Society and Natural Resources
Sustainability
Transportation Research Part E

OTHER APPOINTMENTS

Specialty Chief Editor, Marine Affairs and Policy, *Frontiers in Marine Science*, 2018-present.

Member, *Ocean & Coastal Management* Editorial Board, 2016-present.

Chair, WHOI Summer Student Fellowship Selection Committee, 2019-2021 (Member 2014-2018).

Member, WHOI Ocean Twilight Zone (OTZ) Project Steering Committee, 2018-present.

Faculty, MIT-WHOI Joint Program in Oceanography/Applied Ocean Science & Engineering, 2018-present.

Adjunct Faculty, Department of Marine Affairs, University of Rhode Island, 2020-2023.

Visiting Professor (2003-2017) and member (Vice Chair 2006-2008, Chair 2012-2017) of the International Academic Advisory Committee, Coastal and Ocean Management Institute, Xiamen University.

Adjunct Professor, Intercampus Graduate School of Marine Sciences and Technology, University of Massachusetts, 2002-2011.